



2012 Chevrolet Volt- 72F		
Vehicle architecture	EREV	
Document date	10/22/2012	
Revision Number	1	
Notes:		

Vehicle Setup Information

Test cell location	Front	
Vehicle dynamometer Input		
Test weight [lb]	4000	
Target A [lb]	28.66	
Target B [lb/mph]	-0.0132	
Target C [lb/mph^2]	0.0202	
Test Fuel Information		
Fuel type	EPA Tier II EEE	
Fuel density [g/ml]	0.743	
Fuel Net HV [BTU/lbm]	18490	

### Rest Sequence purpose: Standard testing ### Standard Lesting	Sole HV belley.
State Colored Colore	222.2 212.9 212.6
State Colored Colore	222.2 212.9 212.6
61209032 UDDS RS- Cycle 1 09/19/12, 21.94 42.18 29.34 SM Off Off Closed Closed 7.45 Inf 4.39 386.1 1655.5 61209033 UDDS RS- Cycle 2 09/19/12, 21.41 43.69 29.35 SM Off Off Closed Closed 7.45 Inf 4.28 380.1 1585.9 61209034 UDDS RS- Cycle 2 09/19/12, 21.56 44.32 29.34 SM Off Off Closed Closed 7.45 Inf 4.34 37.39 1583.3 61209035 UDDS RS- Cycle 3 09/19/12, 21.56 44.32 29.34 SM Off Off Closed Closed 7.47 Inf 4.38 369.6 1577.0 61209036 UDDS RS- Cycle 4 09/19/12, 21.52 44.84 29.34 SM Off Off Closed Closed 7.47 Inf 4.38 369.6 1577.0 61209037 UDDS RS- Cycle 5 09/19/12, 21.52 44.84 29.34 SM Off Off Closed Closed 7.47 Inf 4.48 366.1 1567.1 61209037 UDDS RS- Cycle 6 09/19/12, 21.08 45.62 29.33 SM Off Off Closed Closed 7.47 Inf 4.48 366.1 1567.1 61209038 UDDS RS- Cycle 6 09/19/12, 21.08 45.62 29.33 SM Off Off Closed Closed 7.47 S7.3 0.13 1.30 349.7 400.3 61209039 UDDS RS- Cycle 7 09/19/12, 21.46 48.17 29.31 SM Off Off Closed Closed 7.47 45.7 0.16 0.13 349.5 4.1 100.5 61209039 UDDS RS- Cycle 8 09/19/12, 21.42 48.33 29.30 SM Off Off Closed Closed 7.47 44.8 0.17 0.05 349.3 314.4 Full charge test summary Totals 59.68 0.46 27.7 9888 61205097a Highway- Cycle 1 05/29/12, 21.22 45.57 29.11 SM Off Off Closed Closed 10.25 Inf 6.36 374.7 2346.5 61205098b Highway- Cycle 3 05/29/12, 21.22 45.57 29.11 SM Off Off Closed Closed 10.25 Inf 6.36 374.7 3363.3 2349.7 61205099a Highway- Cycle 4 05/29/12, 21.22 45.57 29.11 SM Off Off Closed Closed 10.25 Inf 6.36 374.7 3363.3 2349.7 61205099a Highway- Cycle 5 05/29/12, 21.22 45.57 29.11 SM Off Off Closed Closed 10.25 Inf 6.51 359.3 2305.8 61205099a Highway- Cycle 5 05/29/12, 21.39 46.30 29.11 SM Off Off Closed Closed 10.25 Inf 6.51 359.3 2305.8 61205099a Highway- Cycle 5 05/29/12, 21.39 46.30 29.11 SM Off Off Closed Closed 10.25 Inf 6.51 359.3 2305.8 61205099a Highway- Cycle 5 05/29/12, 21.39 46.30 29.11 SM Off Off Closed Closed 10.25 Inf 6.51 359.3 2305.8 61205099a Highway- Cycle 5 05/29/12, 21.39 46.30 29.11 SM Off Off Closed Closed 10.25 52.9 0.19 0.94 354.1 301.6	212.9 212.6
61209033 UDDS HS- Cycle 1 09/19/12, 21.41 43.69 29.35 SM Off Off Closed Closed 7.45 Inf 4.28 380.1 1585.9 61209034 UDDS HS- Cycle 2 09/19/12, 21.47 45.75 29.35 SM Off Off Closed Closed 7.45 Inf 4.34 373.9 1583.3 61209035 UDDS HS- Cycle 3 09/19/12, 21.56 44.32 29.34 SM Off Off Closed Closed 7.47 Inf 4.38 360.6 1577.0 61209036 UDDS HS- Cycle 4 09/19/12, 21.52 44.84 29.34 SM Off Off Closed Closed 7.46 Inf 4.41 364.6 1567.1 61209037 UDDS HS- Cycle 5 09/19/12, 22.03 54.26 29.33 SM Off Off Closed Closed 7.46 Inf 4.41 364.6 1567.1 61209038 UDDS HS- Cycle 6 09/19/12, 22.03 54.26 29.33 SM Off Off Closed Closed 7.47 Inf 4.48 365.1 1554.4 61209038 UDDS HS- Cycle 6 09/19/12, 21.08 45.62 29.33 SM Off Off Closed Closed 7.47 57.3 0.13 1.30 349.7 400.3 61209039 UDDS HS- Cycle 7 09/19/12, 21.48 48.17 29.31 SM Off Off Closed Closed 7.47 45.7 0.16 0.13 349.5 -4.1 61209039 UDDS HS- Cycle 8 09/19/12, 21.42 48.33 29.30 SM Off Off Closed Closed 7.47 45.7 0.16 0.13 349.5 -4.1 61209039 UDDS HS- Cycle 8 09/19/12, 21.42 48.33 29.30 SM Off Off Closed Closed 7.47 44.8 0.17 0.5 349.3 314.4 Full charge test summary **Totals** 59.68** **Totals** 59.68** **Off Off Closed Closed 10.25 Inf 6.36 374.7 2346.5 61205093 Highway- Cycle 2 05/29/12, 22.07 42.80 29.12 SM Off Off Closed Closed 10.25 Inf 6.36 374.7 2346.5 61205093 Highway- Cycle 3 05/29/12, 21.22 45.57 29.11 SM Off Off Closed Closed 10.25 Inf 6.51 359.3 2305.8 61205093 Highway- Cycle 4 05/29/12, 21.24 45.57 29.11 SM Off Off Closed Closed 10.25 Inf 6.51 359.3 2305.8 61205093 Highway- Cycle 5 05/29/12, 21.24 45.57 29.11 SM Off Off Closed Closed 10.25 Inf 6.51 359.3 2305.8 61205093 Highway- Cycle 5 05/29/12, 21.24 45.57 29.11 SM Off Off Closed Closed 10.25 Inf 6.51 359.3 2305.8 61205093 Highway- Cycle 5 05/29/12, 21.23 46.30 29.11 SM Off Off Closed Closed 10.25 Inf 6.51 359.3 2305.8 61205093 Highway- Cycle 5 05/29/12, 21.24 45.57 29.11 SM Off Off Closed Closed 10.25 Inf 6.51 359.3 2305.8 61205093 Highway- Cycle 5 05/29/12, 21.24 24.57 29.11 SM Off Off Closed Closed 10.25 Inf 6.51 359.3 23	212.9 212.6
61209034 UDDS HS- Cycle 2 09/19/12, 21.47 45.75 29.35 SM Off Off Closed Closed 7.45 Inf 4.34 373.9 1583.3 61209035 UDDS HS- Cycle 3 09/19/12, 21.56 44.32 29.34 SM Off Off Closed Closed 7.47 Inf 4.38 366.6 1577.0 61209036 UDDS HS- Cycle 4 09/19/12, 22.03 54.26 29.33 SM Off Off Closed Closed 7.44 Inf 4.48 365.1 1554.4 61209038 UDDS HS- Cycle 6 09/19/12, 22.03 54.26 29.33 SM Off Off Closed Closed 7.44 Inf 4.48 365.1 1554.4 61209038 UDDS HS- Cycle 6 09/19/12, 21.08 45.62 29.33 SM Off Off Closed Closed 7.47 Inf 4.48 365.1 1554.4 61209038 UDDS HS- Cycle 7 09/19/12, 21.46 48.17 29.31 SM Off Off Closed Closed 7.47 45.7 0.16 0.13 349.5 4.1 61209040 UDDS HS- Cycle 8 09/19/12, 21.42 48.33 29.30 SM Off Off Closed Closed 7.47 45.7 0.16 0.13 349.5 4.1 61209040 UDDS HS- Cycle 8 09/19/12, 21.42 48.33 29.30 SM Off Off Closed Closed 7.47 44.8 0.17 0.05 349.3 31.4 Full charge test summary **Totals** 59.68 0.46 22.77 9888 61205097a Highway- Cycle 1 05/29/12, 22.07 42.80 29.12 SM Off Off Closed Closed 10.25 Inf 6.36 374.7 2346.5 61205098a Highway- Cycle 3 05/29/12, 21.22 45.57 29.11 SM Off Off Closed Closed 10.25 Inf 6.47 366.3 2349.7 61205099a Highway- Cycle 4 05/29/12, 21.22 45.57 29.11 SM Off Off Closed Closed 10.25 Inf 6.47 366.3 2349.7 61205099a Highway- Cycle 5 05/29/12, 21.29 46.50 29.11 SM Off Off Closed Closed 10.25 Inf 6.47 366.3 2349.7 61205099a Highway- Cycle 5 05/29/12, 21.22 45.57 29.11 SM Off Off Closed Closed 10.25 Inf 6.51 359.3 2305.8 61205099a Highway- Cycle 5 05/29/12, 21.22 45.57 29.11 SM Off Off Closed Closed 10.25 Inf 6.51 359.3 2305.8 61205099a Highway- Cycle 5 05/29/12, 21.23 46.30 29.11 SM Off Off Closed Closed 10.25 Inf 6.51 359.3 2305.8 61205099a Highway- Cycle 5 05/29/12, 21.23 46.30 29.11 SM Off Off Closed Closed 10.25 52.9 0.19 0.94 354.1 301.6	212.6
61209035 UDDS HS-Cycle 3 09/19/12, 21.56 44.32 29.34 SM Off Off Closed Closed 7.47 Inf 4.38 369.6 1577.0 61209036 UDDS HS-Cycle 4 09/19/12, 22.03 54.26 29.33 SM Off Off Closed Closed 7.46 Inf 4.41 364.6 1567.1 61209037 UDDS HS-Cycle 5 09/19/12, 22.03 54.26 29.33 SM Off Off Closed Closed 7.47 Inf 4.48 36.1 1554.4 1nf 4.48 36.1 1554.4 1nf 4.48 36.1 1567.1 61209039 UDDS HS-Cycle 6 09/19/12, 21.08 45.62 29.33 SM Off Off Closed Closed 7.47 57.3 0.13 1.30 349.7 400.3 61209039 UDDS HS-Cycle 7 09/19/12, 21.46 48.17 29.31 SM Off Off Closed Closed 7.47 45.7 0.16 0.13 349.5 -4.1 61209040 UDDS HS-Cycle 8 09/19/12, 21.42 48.33 29.30 SM Off Off Closed Closed 7.47 44.8 0.17 0.05 349.3 -31.4 Full charge test summary Full charge test summary Total 59.68 0.46 27.7 9888 61205097a Highway-Cycle 1 05/29/12, 22.07 42.80 29.12 SM Off Off Closed Closed 10.26 Inf 6.56 383.4 2481.5 61205097b Highway-Cycle 3 05/29/12, 21.22 45.57 29.11 SM Off Off Closed Closed 10.25 Inf 6.36 374.7 2346.5 61205099a Highway-Cycle 4 05/29/12, 21.24 24.57 29.11 SM Off Off Closed Closed 10.25 Inf 6.47 368.3 2349.7 61205099a Highway-Cycle 5 05/29/12, 21.29 46.30 29.11 SM Off Off Closed Closed 10.25 Inf 6.51 363.9 32305.8 61205099a Highway-Cycle 5 05/29/12, 21.39 46.30 29.11 SM Off Off Closed Closed 10.25 Inf 6.51 363.9 32305.8 61205099a Highway-Cycle 5 05/29/12, 21.39 46.30 29.11 SM Off Off Closed Closed 10.25 Inf 6.51 363.9 32305.8 61205099a Highway-Cycle 5 05/29/12, 21.39 46.30 29.11 SM Off Off Closed Closed 10.25 Inf 6.51 363.9 32305.8 61205099a Highway-Cycle 5 05/29/12, 21.39 46.30 29.11 SM Off Off Closed Closed 10.25 Inf 6.51 363.9 32305.8 61205099a Highway-Cycle 5 05/29/12, 21.39 46.30 29.11 SM Off Off Closed Closed 10.25 Inf 6.51 363.9 32305.8 61205099a Highway-Cycle 5 05/29/12, 21.39 46.30 29.11 SM Off Off Closed Closed 10.25 Inf 6.51 363.9 32305.8 61205099a Highway-Cycle 5 05/29/12, 21.39 46.30 29.11 SM Off Off Closed Closed 10.25 Inf 6.51 363.9 32305.8 61205099a Highway-Cycle 5 05/29/12, 21.39 46.30 29.11 SM Off Off	
61209036 UDDS HS-Cycle 4 09/19/12, 21.52 44.84 29.34 SM Off Off Closed Closed 7.46 Inf 4.41 364.6 1567.1	211.0
61209037 UDDS HS- Cycle 5 09/19/12, 22.03 54.26 29.33 SM Off Off Closed Closed 7.44 Inf 4.48 356.1 1554.4 61209038 UDDS HS- Cycle 6 09/19/12, 21.08 45.62 29.33 SM Off Off Closed Closed 7.47 57.3 0.13 1.30 349.7 400.3 61209039 UDDS HS- Cycle 7 09/19/12, 21.46 48.17 29.31 SM Off Off Closed Closed 7.47 45.7 0.16 0.13 349.5 -4.1 01209040 UDDS HS- Cycle 8 09/19/12, 21.42 48.33 29.30 SM Off Off Closed Closed 7.47 45.7 0.16 0.13 349.5 -4.1 0.15 0.15 0.15 0.13 349.5 -4.1 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.	
61209038	210.2
61209039 UDDS HS- Cycle 7 09/19/12, 21.46 48.17 29.31 SM Off Off Closed Closed 7.47 45.7 0.16 0.13 349.5 4.1 61209040 UDDS HS- Cycle 8 09/19/12, 21.42 48.33 29.30 SM Off Off Closed Closed 7.47 44.8 0.17 0.05 349.3 -31.4 Full charge test summary	208.9
Columb C	53.6
Full charge test summary Totals 59.68 0.46 27.7 9888 61205097a Highway- Cycle 1 05/29/12, 22.07 42.80 29.12 SM Off Off Closed Closed 10.26 Inf 6.56 383.4 2481.5 61205097b Highway- Cycle 2 05/29/12, 21.22 45.57 29.11 SM Off Off Closed Closed 10.25 Inf 6.36 374.7 2346.5 61205098a Highway- Cycle 3 05/29/12, 21.22 45.57 29.11 SM Off Off Closed Closed 10.25 Inf 6.47 368.3 2349.7 61205098b Highway- Cycle 4 05/29/12, 21.22 45.57 29.11 SM Off Off Closed Closed 10.25 Inf 6.47 368.3 2349.7 61205099a Highway- Cycle 5 05/29/12, 21.39 46.30 29.11 SM Off Off Closed Closed 10.25 Inf 6.51 359.3 2305.8 61205099a Highway- Cycle 5 05/29/12, 21.39 46.30 29.11 SM Off Off Closed Closed 10.25 52.9 0.19 0.94 354.1 301.6	-0.6
61205097a Highway- Cycle 1 05/29/12, 22.07 42.80 29.12 SM Off Off Closed Closed 10.26 Inf 6.56 383.4 2481.5 61205097b Highway- Cycle 2 05/29/12, 21.22 45.57 29.11 SM Off Off Closed Closed 10.25 Inf 6.36 374.7 2346.5 61205098a Highway- Cycle 3 05/29/12, 21.22 45.57 29.11 SM Off Off Closed Closed 10.25 Inf 6.36 374.7 32346.5 Highway- Cycle 3 05/29/12, 21.22 45.57 29.11 SM Off Off Closed Closed 10.25 Inf 6.37 368.3 2349.7 61205099a Highway- Cycle 4 05/29/12, 21.29 45.57 29.11 SM Off Off Closed Closed 10.25 Inf 6.51 359.3 2305.8 61205099a Highway- Cycle 5 05/29/12, 21.39 46.30 29.11 SM Off Off Closed Closed 10.25 52.9 0.19 0.94 354.1 301.6	-4.2
61205097b Highway- Cycle 2 05/29/12 22.07 42.80 29.12 SM Off Off Closed Closed 10.25 Inf 6.36 374.7 2346.5 61205098a Highway- Cycle 3 05/29/12 21.22 45.57 29.11 SM Off Off Closed Closed 10.25 Inf 6.47 368.3 2349.7 61205098b Highway- Cycle 4 05/29/12 21.22 45.57 29.11 SM Off Off Closed Closed 10.25 Inf 6.51 359.3 2305.8 61205099a Highway- Cycle 5 05/29/12 21.39 46.30 29.11 SM Off Off Closed Closed 10.25 Inf 6.51 359.3 2305.8 61205099a Highway- Cycle 5 0.629/12 21.39 46.30 29.11 SM Off Off Closed Closed 10.25 1.9 0.19 0.94 354.1 301.6	
61205098a Highway- Cycle 3 05/29/12 21.22 45.57 29.11 SM Off Off Closed Closed 10.25 Inf 6.47 368.3 2349.7 61205098b Highway- Cycle 4 05/29/12 21.22 45.57 29.11 SM Off Off Closed 10.25 Inf 6.51 359.3 2305.8 61205099a Highway- Cycle 5 05/29/12 21.39 46.30 29.11 SM Off Off Closed Closed 10.25 52.9 0.19 0.94 354.1 301.6	241.9
61205098b Highway-Cycle 4 05/29/12, 21.22 45.57 29.11 SM Off Off Closed Closed 10.25 Inf 6.51 359.3 2305.8 61205099a Highway-Cycle 5 05/29/12, 21.39 46.30 29.11 SM Off Off Closed Closed 10.25 52.9 0.19 0.94 354.1 301.6	228.8
61205099a Highway-Cycle 5 05/29/12, 21.39 46.30 29.11 SM Off Off Closed Closed 10.25 52.9 0.19 0.94 354.1 301.6	229.3
	225.0
	29.4
61205099b Highway- Cycle 6 05/29/12, 21.39 46.30 29.11 SM Off Off Closed Closed 10.25 48.5 0.21 0.06 354.5 -9.7	-0.9
61205100a Highway- Cycle 7 05/29/12, 21.43 45.44 29.13 SM Off Off Closed Closed 10.24 47.7 0.21 0.03 354.5 -20.5	-2.0
61205100b Highway- Cycle 8 05/29/12, 21.43 45.44 29.13 SM Off Off Closed Closed 10.25 48.6 0.21 -0.03 354.3 -39.9	-3.9
Full charge test summary Totals 71.75 0.83 26.9 9755	
Re-charging information N/A Ambient temperature during charge HV battery integrated current [DC Ah] 1t [DC Ah] 26.75	
Level: Charger integrated current [AC Ah] nt [AC Ah] 58.61	
HV battery integrated power [DC Wh] N/A	
Charger integrated power [AC Wh] 11762	
	327.4
	316.0
	320.8
	227.8
	-11.1
61205103b US06-Cycle 6 05/30/12, 20.41 43.93 29.17 SM Off Off Closed Closed 8.02 33.5 0.24 0.02 354.2 45.8	-5.7
Full charge test summary Totals 48.09 0.57 26.7 9418	
Re-charging information N/A Ambient temperature during charge HV battery integrated current [DC Ah] nt [DC Ah] 1 [DC Ah] 26.52	
Level: Charger integrated current [AC Ah] nt [AC Ah] 56.91	
HV battery integrated power [DC Wh] WA	\exists
Charger integrated power [AC Wh] 11481	

For the highway and US06 cycles in this summary, two test cycles were conducted in succession. The first is labeled as "a" the second as "b" Electric energy consumption:

HV battery Integrated net current --> Integrated current as reported by power analyzer

HV battery Average Zero crossing Voltage --> Calculated average zero crossing voltage over the phase or cycle

HV Net Energy --> Integrated power as reported by power analyzer

Note that HV Net Energy is not equal to the product of HV battery Integrated net current times Average Zero crossing Voltage.

* The vehicle coast down information for EPA

Advanced Powertrain Research Facility Data referencing:

- This data has originated from the Argonne National Laboratory D³ website. http://webapps.anl.gov/vehicle_data/
 The purpose of this information is to provide advanced technology vehicle chassis dynamometer test data for the engineering community. Mostly comprised of vehicle benchmarking test results, it is intended for the better understanding of the technology and for education. Data from this website may not used as a source for publication or profit without consent of Argonne National Laboratory.
- Please contact d3info@anl.gov for questions, comments or inquiries.